

L1: Entry 1 of 2

File: EPAB

Nov 19, 1992

UB-NO: EP000513738A2  
DOCUMENT-IDENTIFIER: EP 513738 A2  
TITLE: Serum-free medium for mammalian cells cultivation.

UBN-DATE: November 19, 1992

INVENTOR-INFORMATION:

NAME

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APPL-NO: EP92107997


APPL-DATE: May 12, 1992

PRIORITY-DATA: DE04115722A (May 14, 1991)

INT-CL (IPC): C12N 5/00; C12N 5/06

INT-CL (EPC): C12N005/00

ABSTRACT:

CHG DATE=19990617 STATUS=O> A serum-free medium for the cultivation of mammalian cells without protein material of animal origin contains, besides conventional ingredients in place of animal insulin and transferring recombinant insulin from prokaryotes and a water-soluble iron compound. A medium of this type is used according to the invention for the cultivation of mammalian cell especially CHO cells. 

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L1: Entry 2 of 2

File: DWPI

Nov 19, 1992

DERWENT-ACC-NO: 1992-383642

DERWENT-WEEK: 199915

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TITLE: Serum-free medium for cultivation of mammalian cells - contains recombinant insulin from prokaryotes and water soluble iron cpd. instead of animal insulin and transferrin

INVENTOR: BEHRENDT, U; FRANZE, R ; KOCH, S ; LORENZ, T ; SZPERALSKI, B

PATENT-ASSIGNEE: BOEHRINGER MANNHEIM GMBH (BOEF), ROCHE DIAGNOSTICS GMBH (HOFF)

PRIORITY-DATA: 1991DE-4115722 (May 14, 1991)

PATENT-FAMILY:

| PUB-NO   | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|--|-------------------|----------|-------|------------|
| <input type="checkbox"/> <a href="#">EP 513738 A2</a>  | November 19, 1992 | G        | 007   | C12N005/00 |
| <input type="checkbox"/> <a href="#">DE 4115722 A</a>  | November 19, 1992 |          | 005   | C12N005/06 |
| <input type="checkbox"/> <a href="#">JP 05252942 A</a> | October 5, 1993   |          | 006   | C12N005/06 |
| <input type="checkbox"/> <a href="#">EP 513738 A3</a>  | May 5, 1993       |          | 000   | C12N005/00 |

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE

CITED-DOCUMENTS: No-SR.Pub; 4.Jnl.Ref ; EP 248656 ; EP 307247 ; EP 343635 ; EP 481791 ; WO 8800

APPLICATION-DATA:

| PUB-NO       | APPL-DATE    | APPL-NO        | DESCRIPTOR |
|--------------|--------------|----------------|------------|
| EP 513738A2  | May 12, 1992 | 1992EP-0107997 |            |
| DE 4115722A  | May 14, 1991 | 1991DE-4115722 |            |
| JP 05252942A | May 11, 1992 | 1992JP-0117275 |            |
| EP 513738A3  | May 12, 1992 | 1992EP-0107997 |            |

INT-CL (IPC): C07K 15/16; C12N 5/00; C12N 5/06; C12N 5/10; C12N 5/16; C12P 21/00; C12P 21/00

ABSTRACTED-PUB-NO: EP 513738A

BASIC-ABSTRACT:

A) Serum-free medium for the cultivation of mammalian cells contains no protein material of animal origin and contains recombinant insulin from prokaryotes and a water-soluble Fe. cpd. instead of animal insulin as well as transferrin and conventional additives.

ref. medium contains 0.1-20 mg/l insulin and 10 power(-5) - 10 power(-2) mol/l of the water-soluble iron cpd. which is Fe citrate, Fe sulphate, Fe chloride and/or potassium hexacyanoferrate. Medium also contains 3-700 mg/l aminoacids, 0.001-50 mg/l vitamins, 0.3-10 g monosaccharides, 0.1-10000 mg/l inorganic salts, 0.001-0.1 mg/l trace elements, 0.1-50 mg/l nucleosides, 0.001-10 mg/l fatty acids, 0.01-1 mg/l biotin, 0.1-20 mg/l hydrocortisone, 0.1-10 mg/l vitamin B12, 0.01-1 mg/l putrescin, 10-500 mg/l sodium pyruvate and opt. a pH indicator and antibiotics dissolved in water. The medium can also contain 0.1-20 g/l PVA and/or

ethylcellulose.

B) The gene technological prodn. of erythropoietin comprises cultivating CHO cell contg. the gene for erythropoietin in the medium and then insulating erythropoietin from the culture medium

SE/ADVANTAGE - For the cultivation of mammalian cells, esp. CHO cells, and for the gene technological prodn. of erythropoietin, by allowing trans for med CHO cells contg. the gene for erythropoietin to grow in the medium. Conditions for cultivation in the new medium are very close to those used with serum. As the medium contains no protein of animal origin, there is no danger of viral contamination

EXTRACTED-PUB-NO: EP 513738A

EQUIVALENT-ABSTRACTS:

HOSEN-DRAWING: Dwg.0/0

ERWENT-CLASS: B04 D16

PI-CODES: B04-B02D2; B04-B04A3; B04-B04D2; B05-A03A; B11-A; D05-H01;

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